

ABSTRACT OF THE DISCLOSURE

A composition for modulating bone regeneration composition comprises a matrix selected from the group consisting of glycolic acid, lactic acid, collagen, demineralized bone, or a combination thereof. A first biologically active molecule comprising a fibronectin is attached to a portion of the matrix, to facilitate osteoblast activity and for promoting an increase in bone formation. A second biologically active molecule comprising a vitronectin, selected for its ability to attract osteoclasts and produce an inhibiting effect on osteoclast activity to thereby promote a decrease in bone resorption, is also attached to a portion of the matrix.

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